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Gated Power for a Satellite Hopped Downlink with
Multiple Payloads Per Frame

ABSTRACT OF THE DISCLOSURE

A power gating module (200) for a downlink beam
5 frame signal (402) includes a power amplifier (210)
for amplifying for transmission frame signals that
include at least a first header signal (418), a first
payload signal (420), a second header signal (424),
and a second payload signal (426). The power gating
10 module (200) further includes a power gating circuit
(300) coupled to the power amplifier (210). The power
gating circuit (300) includes a power gate input (318)
and is responsive to a power gating signal to remove
power from at least one of the first header signal
15 (418) and first payload signal (420) in combination,
and the second header signal (424) and second payload
signal (426) in combination before amplification by
the power amplifier (210).